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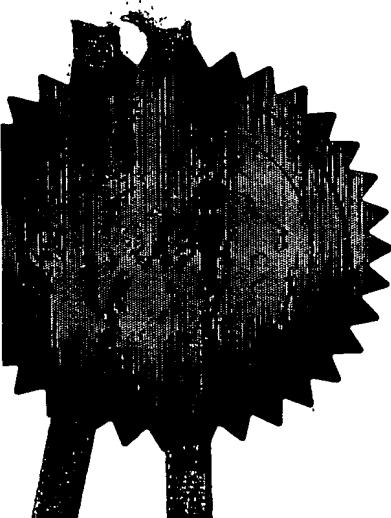
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*Am Brinster*

Dated 15 July 2004



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- 1 JUL 2003  
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P01/7700 0.00-0315269-1

1/77

**Request for grant of a patent**

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

The Patent Office

Cardiff Road  
Newport  
South Wales  
NP10 8QQ

1. Your Reference  
2. Patent Application number  
(The Patent Office will fill in this part)

0315269.1

3. Full name, address and postcode of the or each applicant (underline all surnames)

MALENO, Idalecio Bossa Fernandes  
Casinha  
Flegg Lane  
Crowborough  
East Sussex  
TN6 2PD

Patents ADP Number (if you know it)

756191306/

If the applicant is a corporate body, give the country/state of its incorporation

4. Title of the invention

Mouth and/or throat wash

5. Name of your agent (if you have one)

FRY HEATH &amp; SPENCE LLP

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

The Gables  
Massetts Road  
Horley  
Surrey  
RH6 7DQ  
United Kingdom

Patents ADP Number (if you know it)

05880279001

8459554001

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or each of these earlier applications and (if you know it) the or each application number.

Country

Priority application number  
(if you know it)Date of filing  
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application.

Number of earlier application

Date of filing  
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

No

- a) any applicant named in part 3 is not an inventor; or
- b) there is an inventor who is not named as an applicant; or
- c) any named applicant is a corporate body

(See note (d))

## Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form.  
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Continuation sheets of this form 0

Description 3 ✓

CF

Claim(s) 0

Abstract 0

Drawing(s) 0

10. If you are also filing any of the following, state how many against each item.

Priority documents 0

Translations of priority documents 0

Statement of inventorship and right to grant of a patent (Patents Form 7/77) 0

Request for preliminary examination and search (Patents form 9/77) 0

Request for substantive examination (Patents form 10/77) 0

Any other documents (please specify) 0

11.

I/We request the grant of a patent on the basis of this application.

Signature

Date

Fry Heath &amp; Spence Ltd 1 July 2003

12. Name and daytime telephone number of person to contact in the United Kingdom

A.V. Fry - 01293 776880

## Warning

After an application for a patent has been filed, the Comptroller of the Patent Office will consider whether publication or communication of the invention should be prohibited or restricted under Section 22 of the Patents Act 1977. You will be informed if it is necessary to prohibit or restrict your invention in this way. Furthermore, if you live in the United Kingdom, Section 23 of the Patents Act 1977 stops you filing or applying for a patent abroad without first getting written permission from the Patent Office unless an application has been filed at least 6 weeks beforehand in the United Kingdom for a patent for the same invention and either no direction prohibiting publication or communication has been given, or any such direction has been revoked.

## Notes

- a) If you need help to fill in this form or you have any questions, please contact the Patent Office on 0645 500505.
- b) Write your answers in capital letters using black ink or you may type them.
- c) If there is not enough space for all the relevant details on any part of this form, please continue on a separate sheet of paper and write "see continuation sheet" in the relevant part(s). Any continuation sheet should be attached to this form.
- d) If you have answered 'Yes' Patents Form 7/77 will need to be filed.
- e) Once you have filled in the form you must remember to sign and date it.
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## **Mouth and/or throat wash**

This invention relates to a mouth and/or throat wash for treating *inter alia* infections of the mouth or throat.

In one aspect, the invention provides a mouth and/or throat wash which comprises an aqueous solution produced by immersing a permeable sac containing a measured quantity of a mix of potassium nitrate, activated charcoal and particulate sulphur in a measured quantity of boiling water, removing the sac from the boiling water after a predetermined period of time, and allowing the solution to cool.

In another aspect the invention provides a water immersible permeable sealed sac containing a measured mix of potassium nitrate, activated charcoal and particulate sulphur, the sac being usable in a treatment for infections of the mouth or throat.

In a further aspect, the invention provides a mouth and/or throat wash which comprises an aqueous solution produced by immersing a permeable sealed sac containing measured quantities of at least two of potassium nitrate, activated charcoal and particulate sulphur in a measured quantity of boiling water for a predetermined period of time, discarding the sac and allowing the solution to cool.

In a still further aspect, the invention provides a method of producing a mouth or throat wash which comprises placing a permeable sealed sac containing a measured quantity of a mix of potassium nitrate, activated charcoal and particulate sulphur in a measured quantity of water, bringing the water to the boil, removing the sac from the boiling water after a given period of time, and allowing the water containing a solution of the mix to cool.

In a still further embodiment, the invention provides a mouth and/or throat wash which comprises placing a permeable sealed sac containing a measured quantity of a mix of at least two of potassium nitrate, activated charcoal and particulate sulphur in a measured quantity of water, bringing the water to the boil, removing the sac from the boiling water after a given period of time, and allowing the water now containing a solution of the contents of the sac to cool.

By "sac" is meant a sealed bag, sachet or like container.

Typically, compounds in accordance with the invention contain between 70 and 80% by weight potassium nitrate, 10 to 25% activated charcoal and between 5 and 20 % particulate sulphur.

In one embodiment, the proportions of potassium nitrate, activated charcoal and particulate sulphur are 75:15:10.

Typically a permeable sac contains between 5 and 200g of the mix. Preferred ranges are between 30 and 150g and between 55 and 110g of the mix. The quantity of water in which the sac is immersed is typically between 50 to 750ml; preferred quantities are between 250 and 500ml and 300 and 420ml.

The predetermined period of time may be between 2 and 5 minutes. Preferably, the time period is between 3 and 4 minutes.

The sac may comprise a woven cloth of, for example, linen or like material. Other sac materials may however be used, these including paper.

In one example of a mouth or throat wash in accordance with the invention, approximately 60g of a mix of potassium nitrate, activated charcoal and particulate sulphur was placed in a permeable cloth sac. The

proportions by weight of potassium nitrate, activated charcoal and particulate sulphur in the mix were 75:15:10. The open end of the sac was sealed and the sac was placed in approximately 350ml of cold water. The water was brought to the boil and the sac was left in the boiling water for approximately 4 minutes. During the boiling process, a solution of the mix diffused through the pores of the sac to create within the water a weak solution. The sac was then removed and discarded. When cooled to an acceptable temperature, the water was used as a gargle for treating a patient having a throat infection. The gargle was used when warm; preferably, the temperature of the mouthwash when taken should be as hot as is comfortable for the user. After taking 5 gargles over a time period of 15 to 30 minutes, the patient's throat infection was relieved.

In another example, a permeable cloth sac was filled with approximately 75g of potassium nitrate, activated charcoal and particulate sulphur in respective proportions by weight of 75:15:10 and the sac sealed. The sac was placed in 300ml of cold water which was brought to the boil. After 3 minutes the sac was removed from the boiling water and discarded. After cooling to an acceptable warm temperature, the water was used effectively as a mouth wash to relieve the infection after 4 gargles over a time period of around 5 minutes.

If necessary, a flavouring may be added to the mouthwash.

It will be appreciated that the foregoing is merely exemplary of medicinal compounds in accordance with the invention and that modifications can readily be made thereto without departing from the true scope of the invention.